

Notice of Allowability

Application No.

10/772,255

Examiner

YASIN BARQADLE

Applicant(s)

REUNAMAKI ET AL.

Art Unit

2456

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/05/2010.
2. ☒ The allowed claim(s) is/are 1-5,7,8,10 and 13-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Examiner's Amendment

1. An examiner's amendment to the record is attached. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul S. Hunter (Reg. 44,787) on March 25, 2010.

3. In the claims:

Please amend the claims as attached:

1. (Currently Amended) A method of forming a piconet in a wireless communications device, the method comprising:
transmitting a beacon packet from the wireless communications device across a wireless channel during a first predetermined time interval;
scanning the wireless channel from the wireless communications device for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;
receiving a request for additional information from a remote wireless communications device during the second predetermined time interval without associating with the remote wireless communications device;
transmitting a second beacon packet from the wireless communications device during a third time interval;

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transmitting a beacon extension from the wireless communications device during an extension interval immediately following the third time interval, wherein the beacon extension includes the additional information;
receiving a piconet joining request packet from [[a]] the remote wireless communications device during ~~the second~~ a fourth predetermined time interval; and
transmitting a confirmation packet to the remote wireless communications device during a [[third]] fifth predetermined time interval, the [[third]] fifth predetermined time interval immediately following the [[second]] fourth predetermined time interval ~~and before transmitting a second beacon packet.~~

2. (Original) The method of claim 1, wherein the piconet joining request includes a request for a role switch.
3. (Original) The method of claim 2, further comprising receiving a beacon packet from the remote wireless communications device.
4. (Original) The method of claim 1, wherein the beacon packet, the piconet joining request packet, and the confirmation packet each include one or more OFDM symbols.
5. (Original) The method of claim 1, wherein the wireless channel employs a frequency hopping pattern.
6. (Canceled)
7. (Currently Amended) The method of claim 1 [[6]], wherein the additional information includes available services from the wireless communications device.

8. (Currently Amended) The method of claim 1 [[6]], wherein the additional information includes identifiers of devices that are in a piconet with the wireless communications device.

9. (Canceled)

10. (Currently Amended) A wireless communications device, comprising:
means for transmitting a beacon packet across a wireless channel during a first predetermined time interval;
means for scanning the wireless channel for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;
means for receiving a request for additional information from a remote wireless communications device during the second predetermined time interval without associating with the remote wireless communications device;
means for transmitting a second beacon packet from the wireless communications device during a third time interval;
means for transmitting a beacon extension from the wireless communications device during an extension interval immediately following said third time interval, wherein the beacon extension includes the additional information;
means for receiving a piconet joining request packet from [[a]] the remote wireless communications device during ~~the second~~ a fourth predetermined time interval; and
means for transmitting a confirmation packet to the remote wireless communications device during a [[third]] fifth predetermined time interval, the [[third]] fifth predetermined time interval immediately following the [[second]] fourth predetermined time interval ~~and before transmitting a second beacon packet.~~

11. – 12. (Canceled)

13. (Currently Amended) A system for forming a piconet of a plurality of wireless communications devices, the system comprising:
a beacon-transmitting device configured to transmit ~~that transmits~~ a beacon packet across a wireless channel during a first predetermined time interval and scan the wireless channel for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval; and
a remote wireless communication device configured to receive ~~that receives~~ the beacon packet and transmit a request for additional information to the beacon-transmitting device during a second predetermined interval without associating with the beacon-transmitting device and transmits a piconet joining request during a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval and, wherein the beacon-transmitting device is further configured to receive the request for additional information from the remote wireless communication device during the second predetermined interval without associating with the remote wireless communications device, transmit a second beacon packet during a third time interval, and transmit a beacon extension following the third time interval, wherein the beacon extension includes the additional information, wherein the remote wireless communication device is configured to receive the additional information and transmit a piconet joining request, and wherein the beacon-transmitting device is configured to receive ~~receives~~ the piconet joining request packet during a fourth ~~the second~~ predetermined time interval and transmit ~~transmits~~ a confirmation packet to the remote wireless communications device during a fifth ~~[[third]]~~ predetermined time interval, the fifth ~~[[third]]~~ predetermined time interval immediately following the fourth ~~[[second]]~~ predetermined time interval and before transmitting a second beacon packet.

14. (Previously Presented) The system of claim 13, wherein the piconet joining request includes a request for a role switch.

15. (Previously Presented) The system of claim 14, wherein the remote wireless communications device transmits the beacon packet and the beacon-transmitting device receives the beacon packet.

16. (Previously Presented) The system of claim 13, wherein the beacon packet, the piconet joining request packet, and the confirmation packet each include one or more OFDM symbols.

17. (Previously Presented) The system of claim 13, wherein the wireless channel employs a frequency hopping pattern.

18. – 20. (Canceled)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dharia Rupal can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yasin M Barqadle/
Primary Examiner, Art Unit 2456